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Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary) Sheet 1 of 2		Complete if Known		
		Application Number	09/763,824	
		Filing Date	February 27, 2001	
		First named Inventor	David J. Squirrell	
		Group Art Unit	1656	
		Examiner name	David J. Steadman	
		Attorney Docket Number	016026-9315-US00	
U.S. Patent Documents				
Examiner Initials		U.S. Patent Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document
		5,049,358	Lau	9/17/1991
		5,219,737	Kajiyama et al.	6/15/1993
		5,229,285	Kajiyama et al.	7/20/1993
		5,605,793	Stemmer	2/25/1997
		5,670,356	Sherf et al.	9/23/1997
		5,674,713	McElroy et al.	10/7/1997
		5,700,673	McElroy et al.	12/23/1997
		5,716,851	Pugia et al.	2/10/1998
		6,171,808	Squirrell et al.	1/9/2001
		6,265,177	Squirrell et al.	7/24/2001
		6,387,675	Wood et al.	5/14/2002
		7,241,584	Wood et al.	7/10/2007
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FOREIGN PATENT DOCUMENTS							
Examiner Initials		Country Code	Foreign Patent Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document	Translation	English Abstract
		EP	0337349	Kikkoman Corporation	10/18/1989		
		EP	0449621	Kikkoman Corporation	10/2/1991		

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Examiner Initials		Country Code	Foreign Patent Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document	Translation	English Abstract
		EP	0680515	The Secretary of State for Defence	8/26/1998		
		JP	5-244942	Kikkoman Corporation	9/24/1993		
		JP	8-510387	Promega Corporation	11/5/1996		
		JP	9-294600	Kikkoman Corporation	11/18/1997		
		JP	9510610	The Secretary of State for Defence	10/28/1997		
		WO	98/013487	Maxygen Inc.	4/2/1998		
		WO	00/24878	The Secretary of State for Defence	5/4/2000		
		WO	01/31028	The Secretary of State for Defence	5/3/2001		

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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS		
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		ARNOLD, F.H., "Directed evolution: creating biocatalysts for the future," Chem. Eng. Sci. (1996) 51:5091-5102
		BOWIE et al., "Deciphering the message in protein sequences tolerance to amino acid substitutions," Science (1990) 247:1306-1310
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		DE WET, J.R. et al., "Firefly luciferase gene: structure and expression in mammalian cells," Mol. Cell. Biol. (1987) 7(2):725-737
		DEMENTIEVA, E.I. et al., "Assay of ATP in intact Escherichia coli cells expressing recombinant firefly luciferase," Biochem. (1996) 61(7):915-920
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		JANOWSKI, M., "Ras proteins and the Ras-related signal transduction pathway," Radiation & Env. Biophys. (1991) 30(3):185-189
		KAJIYAMA, N. et al., "Enhancement of thermostability of firefly luciferase from luciola lateralis by a single amino acid substitution," Biosci. Biotech. Biochem. (1994) 58(6):1170-1171

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		KAJIYAMA, N. et al., "Isolation and characterization of mutants of firefly luciferase which produce different colors of light," Protein Eng. (1991) 4(6):691-693
		KLOCK, C., "Cloning vector pGEM-luc," Promega Corporation, Accession No. X65316 (4/7/1992) 5 pages
		KUTUZOVA et al., "Bioluminescence color variation and kinetic behavior relationships among beetle luciferases," Bioluminescence & Chemiluminescence, Molecular Reporting with Photons, J.W. Hastings et al. editors, John Wiley & Sons (1996) 248-252
		LIU, Y. et al., "Factors influencing the efficiency of cationic liposome-mediated intravenous gene delivery," Nature Biotech. (1997) 15:167-173
		MANUKHOV et al., "Cloning of the vibrio harveyi luxA and luxB genes and the expression fo bioluminescence in escherichia coli and bacillus subtilis," Russian Biotech. (1996) 1:1-6
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		PURDY et al., "Heterologous gene expression in campylobacter coli: the use of bacterial luciferase in a promoter probe vector," FEMS Microbiology Letters (1993) 111:233-237
		REECK, G.R. et al., "'Homology' in proteins and nucleic acids: a terminology muddle and a way out of it," Cell (1987) 50:667
		ROMMENS, J.M. et al., "cAMP-inducible chloride conductance in mouse fibroblast lines stably expressing the human cystic fibrosis transmembrane conductance regulator," Proc. Natl. Acad. Sci. USA (1991) 88:7500-7504

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		SAIKI, R.K. et al., "Primer-directed enzymatic amplification of DNA with a thermostable DNA polymerase," Science (1988) 239:487-491
		SALA-NEWBY, G.B., "Sequence and biochemical similarities between the luciferases of the glow-worm lampyrus noctiluca and the firefly photinus pyralis," Biochem. J. (1996) 313:761-767
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		WHITE, P.J. et al., "Generation and characterisation of a thermostable mutant of luciferase from photinus pyralis," Proceedings of the 8th International Symposium on Bioluminescence & Chemiluminescence, September 1994, Biolum. Chemilum. (1994) 419-422

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		WOOD, K.V. et al., "Complementary DNA coding click beetle luciferases can elicit bioluminescence of different colors," Science (1989) 244:700-702
		WOOD, K.V., "The chemical mechanism and evolutionary development of beetle bioluminescence," Photochem. Photobiol. (1995) 62(4):662-673
		WOOD, K.V. et al., "Introduction to beetle luciferases and their applications," J. Biolum. Chemilum. (1989) 4:289-301
		WOOD, K.V., "Luc genes: introduction of colour into bioluminescence assays," J. Biolumin. Chemilumin. (1990) 5:107-114
		WOOD, K.V. et al., "Photographic detection of luminescence in escherichia coli containing the gene for firefly luciferase," Anal. Biochem. (1987) 161:501-507
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		International Preliminary Examination Report for Application No. PCT/GB96/00099 dated April 10, 1997 (5 pages)
		Written Opinion for Application No. PCT/GB96/00099 dated October 24, 1996 (3 pages) excerpts (all that is in file)
		International Search Report for Application No. PCT/GB96/00099 dated May 9, 1996 (3 pages)

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		International Preliminary Examination Report for Application No. PCT/GB98/01026 dated June 29, 1999 (5 pages)
		International Search Report for Application No. PCT/GB98/01026 dated October 13, 1998 (4 pages)
		Written Opinion for Application No. PCT/GB98/01026 dated February 5, 1999 (6 pages)
		International Preliminary Examination Report for Application No. PCT/GB99/003538 dated August 14, 2000 (4 pages)
		International Search Report for Application No. PCT/GB99/003538 dated May 23, 2000 (5 pages)
		Invitation to Pay Additional Fees and Partial International Search Report for Application No. PCT/GB99/003538 dated March 20, 2000 (5 pages)
		International Preliminary Examination Report for Application No. PCT/GB00/004133 dated May 30, 2002 (11 pages)
		Written Opinion for Application No. PCT/GB00/004133 dated April 11, 2002 (10 pages)
		International Search Report for Application No. PCT/GB00/004133 dated August 1, 2001 (4 pages)

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		Written Opinion for Application No. PCT/GB1995/000629 dated December 15, 1995 (3 pages)
		International Search Report for Application No. PCT/GB1995/000629 dated August 1, 1995 (3 pages)
		International Preliminary Examination Report for Application No. PCT/US98/19494 dated January 11, 2000 (8 pages)
		International Search Report for Application No. PCT/US98/19494 dated April 16, 1999 (5 pages)
		Written Opinion for Application No. PCT/US98/19494 dated September 14, 1999 (9 pages)
		International Search Report for Application No. PCT/US95/00108 dated April 17, 1995 (3 pages)
		International Search Report for Application No. PCT/US99/30925 dated August 14, 2000 (10 pages)
		Invitation to Pay Additional Fees and Partial Search Report for Application No. PCT/US99/30925 dated June 2, 2000 (12 pages)

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		United States Patent Office Action for Application No. 08/875,277 dated December 17, 1999 (8 pages)
		United States Patent Office Action and Notice of Allowance for Application No. 08/875,277 dated July 3, 2000 (4 pages)
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		United States Patent Office Action/Notice of Allowance for Application No. 09/380,061 dated March 5, 2001 (5 pages)
		United States Patent Office Action for Application No. 10/111,723 dated February 22, 2010 (15 pages)
		United States Patent Office Action for Application No. 10/111,723 dated October 9, 2009 (11 pages)
		United States Patent Office Action for Application No. 10/111,723 dated August 6, 2008 (25 pages)
		United States Patent Office Action for Application No. 10/111,723 dated March 12, 2008 (16 pages)

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		United States Patent Office Action for Application No. 10/111,723 dated December 1, 2006 (31 pages)
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		United States Patent Office Action for Application No. 10/111,723 dated May 24, 2004 (22 pages)
		United States Patent Office Action for Application No. 10/111,723 dated September 20, 2010 (6 pages)
		United States Patent Office Action for Application No. 08/718,425 dated June 7, 1999 (8 pages)
		United States Patent Office Notice of Allowance for Application No. 08/718,425 dated November 12, 1999 (6 pages)
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		United States Patent Office Action for Application No. 08/718,425 dated June 18, 1997 (10 pages)

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		United States Patent Office Action for Application No. 10/378168 dated October 12, 2006 (13 pages)

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				Application Number	09/763,824
				Filing Date	February 27, 2001
				First Named Inventor	David J. Squirrell
				Group Art Unit	1656
				Examiner Name	David J. Steadman
Sheet	10	of	12	Attorney Docket Number	016026-9315-US00

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, pages(s), volume-issue numbers(s), publisher, city and/or country where published.
		United States Patent Office Action for Application No. 10/378168 dated February 9, 2006 (18 pages)
		United States Patent Office Action for Application No. 11/291644 dated January 26, 2009 (13 pages)
		United States Patent Office Action for Application No. 11/291644 dated July 8, 2008 (18 pages)
		United States Patent Office Action for Application No. 11/811898 dated September 17, 2009 (23 pages)
		Australian Patent Office Action for Application No. 63573/99 dated May 23, 2003 (2 pages)
		Australian Patent Office Action for Application No. 63573/99 dated May 13, 2002 (3 pages)
		Australian Patent Office Action for Application No. 2004200277 dated July 7, 2005 (1 page)
		Australian Patent Office Action for Application No. 2004202276 dated July 21, 2006 (2 pages)
		Australian Patent Office Action for Application No. 2004202277 dated December 20, 2007 (1 page)

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Sheet	11	of	12	Attorney Docket Number	016026-9315-US00

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		Australian Patent Office Action for Application No. 2004202277 dated July 21, 2006 (2 pages)
		Canadian Patent Office Action for Application No. 2342300 dated July 28, 2008 (2 pages)
		Canadian Patent Office Action for Application No. 2342300 dated November 22, 2007 (3 pages)
		European Patent Office Action for Application No. 99950990.4 dated October 11, 2007 (11 pages)
		European Patent Office Action for Application No. 99950990.4 dated September 16, 2005 (7 pages)
		European Patent Office Action for Application No. 99950990.4 dated April 6, 2004 (5 pages)
		European Patent Office Action for Application No. 99950990.4 dated July 2, 2003 (5 pages)
		European Patent Office Action for Application No. 99950990.4 dated May 7, 2003 (5 pages)
		European Patent Office Action for Application No. 04000812.0 dated October 11, 2007 (10 pages)

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		European Patent Search Report for Application No. 04000812.0 dated April 6, 2005 (6 pages)
		European Patent Search Report for Application No. 04000812.0 dated January 27, 2005 (5 pages)
		European Patent Search Report for Application No. 08013254.1 dated September 10, 2009 (19 pages)
		Great Britain Patent Office Action for Application No. 9925162.1 dated October 22, 2003 (4 pages)
		Great Britain Patent Office Action for Application No. 9925162.1 dated March 31, 2003 (3 pages)
		Japanese Patent Office Action for Application No. 2000-578432 dated August 31, 2009 (10 pages) with English translation
		Japanese Patent Office Action for Application No. 2000-578432 dated August 16, 2010 (26 pages) with English translation

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